



# **BS-430**

**Chemistry Analyzer**



**mindray**  
healthcare within reach

# BS-430

## Chemistry Analyzer

### Technical Specifications

**System Function:** Automatic, discrete, random access, STAT sample priority  
**Throughput:** 420 photometric tests per hour, up to 626 tests per hour with ISE  
**On-board tests:** 90 photometric tests + 3 ISEs + 3 serum indices

**Sample Handling:**  
**Sample tray:** 102 sample positions,  
**Sample volume:** 1.5µL~45µL, step by 0.1µL  
**Sample probe:** Liquid level detection, collision protection, clog detection (optional), and auto-dilution, automatic hemolysis  
 Carry-over≤0.05µL

**Reagent Handling:**  
**Reagent tray:** 92 reagent positions with 24-hour refrigeration 2~8°C,  
**Reagent volume:** 10µL~200µL, step by 0.5µL  
**Reagent probe:** Liquid level detection, collision protection, bubble detection, concentrated reagent with auto-dilution

**Built-in Bar Code Reader (optional):**  
 Sample and reagent bar code readers support Codabar, ITF (Interleaved Two of Five), Code128, Code39, UPC/EAN and code93, Capable to connect with LIS in Bi-directional mode

**Reaction System:**  
**Cuvettes:** 93 reusable cuvettes with 8-step auto-washing  
**Reaction temperature:** 37 ± 0.1°C  
**Reaction volume:** 100~300µL  
**Mixing system:** 2 independent mixers with speed detection

**Optical System:**  
**Light source:** 12V 20W tungsten-halogen lamp  
**Photometer:** Grating system  
**Wavelength:** 340nm, 380nm, 412nm, 450nm, 505nm, 546nm, 570nm, 605nm, 660nm, 700nm, 740nm, 800nm  
**Absorbance range:** 0~3.5A

**ISE Module (Optional):**  
 K<sup>+</sup>, Na<sup>+</sup>, Cl<sup>-</sup>

**Control and Calibration:**  
**Calibration mode:** K factor, Linear (two points and multi-points), Logit-Log 4P, Logit-Log 5P, spline, exponential, polynomial, parabola, Logit-log3P, broken line  
**Control rules:** Westgard multi-rule, Levey-Jennings, Cumulative sum check, Twin plot

**Operation Unit:**  
**Operation system:** Windows 10  
**Interface:** RS-232 serial port

**Working Conditions**  
**Power supply:** 220V-240V, 50/60Hz, ≤1000VA or 110V-130V, 60Hz, ≤1000VA  
**Water consumption:** ≤20 L/H  
**Dimension:** 1050 mm (W) \* 720 mm (D) \* 1150 mm (H)  
**Weight:** ≤200 Kg

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